



Gefen^{tv}

Wireless VGA Extender SR

GTV-WVGA-SR

User Manual

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INTRODUCTION

Congratulations on your purchase of the Wireless VGA SR. Your complete satisfaction is very important to us.

Gefen

Gefen delivers innovative, progressive computer and electronics add-on solutions that harness integration, extension, distribution and conversion technologies. Gefen's reliable, plug-and-play products supplement cross-platform computer systems, professional audio/video environments and HDTV systems of all sizes with hard-working solutions that are easy to implement and simple to operate.

The Gefen Wireless VGA SR

The Wireless VGA Extender SR allows a VGA display or projector to be conveniently located up to 30 feet away from the source.

The Wireless VGA Extender SR features line-of-sight signal transmission and through walls at resolutions of up to 1280x1024, using industry-proven 2.4GHz 802.11b/g/n Wireless network technology. The Extender can be operated on any one of 4 channels to minimize interference.

How It Works

This product is a plug-and-play solution. No special configuration is necessary. The Wireless VGA Extender SR system consists of a Sender and a Receiver. The Sender is connected to the VGA source with a VGA cable. The Receiver is connected to the display with a VGA cable. 12V external power supplies are connected to the Sender and the Receiver.

Supported A/V input sources also include Component, S-Video and Composite Video. A/V sources can be individually selected by pressing the Source Selector button on the front panel of either the Sender unit or the Receiver unit. The current wireless channel can be selected in the same way with the Channel Selector button.

OPERATION NOTES

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE WIRELESS VGA SR

- The Wireless VGA SR will accept component video signals (YPbPr) up to 1080p. However, 1080i and 1080p signals will be down scaled and transmitted at 1280x720. Please see the table at the bottom of this page for a list of input and output resolutions and framerates.
- For better transmitting quality, please do not place units into cabinets or cupboards that will reduce the wireless signal. Also, please note that only one set can be used at any given time at a location. Multiple sets in close proximity may cause interference with each other.
- The following input formats are accepted:

Composite: NTSC / PAL / SECAM: 480i@60Hz , 576i@50Hz

S-Video: NTSC / PAL / SECAM: 480i@60Hz , 576i@50Hz

Y/Pb/Pr: 480i/p@60Hz, 576i/p@50Hz, 720p@50/60Hz, 1080i/p@50/60Hz

VGA: 640X480@60Hz, 800X600@60Hz, 1024X768@60Hz,
1280X768@60Hz, 1280X1024@60Hz

The following are the output formats:

Y/Pb/Pr: 480p@60Hz, 576p@50Hz, 720p@60Hz,

VGA: 640x480@60Hz, 800X600@60Hz, 1024X768@60Hz,
1280X768@60Hz, 1280X1024@60Hz

- The following are the transfer frame rates:

Composite : 480i@60Hz → 480i@60fps

576i@50Hz → 576i@50fps

S-Video : 480i@60Hz → 480i@60fps

576i@50Hz → 576i@50fps

Y/Pb/Pr : 480 i/p @60Hz → 480i/p@60fps

576 i/p @50Hz → 576i/p@50fps

720p@60Hz → 720p@30fps

720p@50Hz → 720p@25fps

1080i@60Hz → 720p@30fps

1080i@50Hz → 720p@25fps

1080p@60Hz → 720p@30fps

1080p@50Hz → 720p@25fps

VGA : 640X480@60Hz (4:3) → 640x480@30fps

800X600@60Hz (4:3) → 800X600@30fps

1024X768@60Hz (4:3) → 1024X768@30fps

1280X768@60Hz (5:3) → 1280X768@30fps

1280X1024@60Hz (5:4) → 1280X1024@20fps

FEATURES

Features

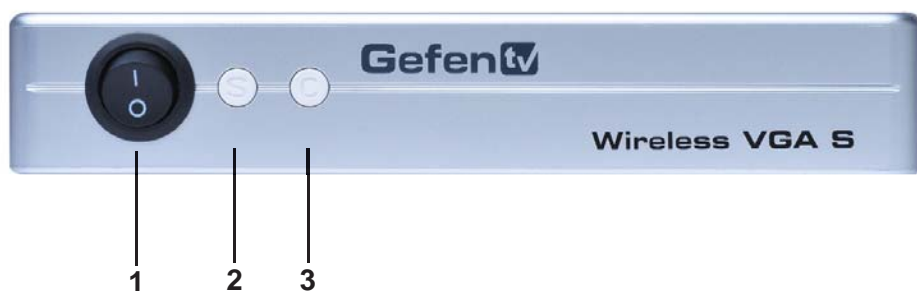
- Wireless extension of VGA up to 30 feet
- Video Input Formats Supported:
 - Max. VGA: 1280x1024@60Hz
 - Max. Y/Pb/Pr: 1080p@60Hz
 - SVideo, Composite: 480i@60Hz, 576i@50Hz
- Video Output Formats Supported:
 - Max. VGA: 1280x1024@60Hz
 - Max. Y/Pb/Pr: 720p@60Hz
 - SVideo, Composite: 480i@60Hz, 576i@50Hz
- Switch between four audio/video sources from the sender's location
- Plug-and-Play installation with no special configuration required
- 4 wireless channels for resistance to interference
- L/R Analog Audio supported

Package Includes

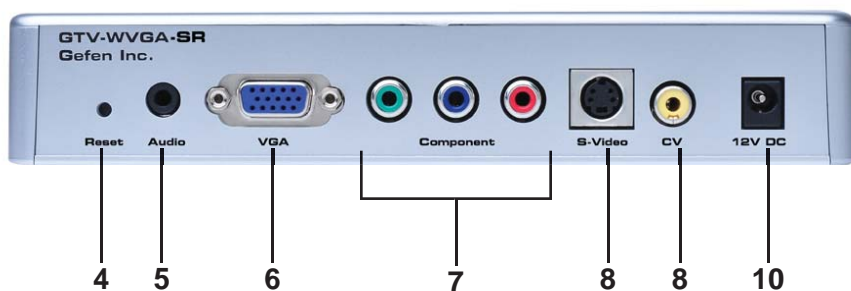
- (1) GTV-WVGA-SR Wireless VGA Sender
- (1) GTV-WVGA-SR Wireless VGA Receiver
- (2) 12V / 1A Power Supplies
- (1) 6 foot VGA cable (M-M)
- (1) User's Manual

SENDER PANEL LAYOUT

Front Panel



Back Panel



SENDER PANEL DESCRIPTIONS

1 **Power Switch**

This switch will toggle the main power on and off.

2 **Source Selector Button**

This button will cycle through the available input video sources. The cycle is outlined below:



3 **Channel Selection Button**

This button will cycle through the available radio channels. There are 4 channels to choose from. This feature is useful when a certain channel is oversaturated and another needs to be used. Changes made on this unit will automatically be reflected on the opposite unit.

4 **Reset Button**

These button will restore the units to factory defaults.

5 **3.5mm Mini-Jack Audio Input**

This input will accept a 3.5mm mini-jack for analog stereo audio transmission. This input will accept a 3.5mm mini-jack audio device for analog audio. Audio from this input will be transmitted to the receiver.

6 **VGA Video Input**

This input will accept a single VGA video source for transmission to the receiver at the remote location.

7 **Component Video Input**

This input will accept a single Component video source for transmission to the receiver at the remote location.

8 **S-Video Input**

This input will accept a single S-Video source for transmission to the receiver at the remote location.

9 **Composite Input**

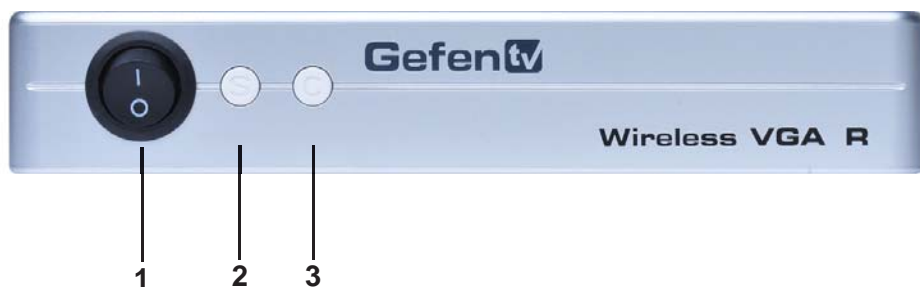
This input will accept a single Composite video source for transmission to the receiver at the remote location.

10 **12V DC Power Input**

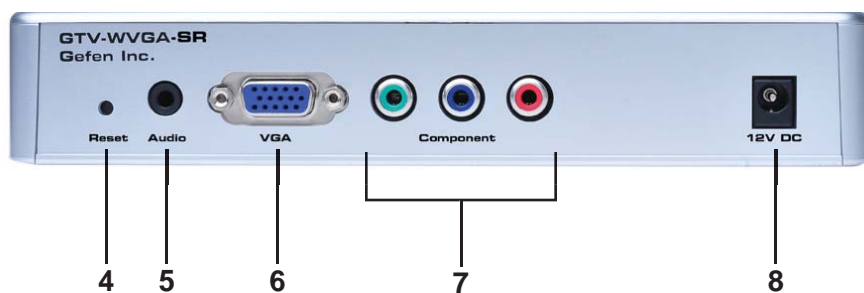
This input will receive power from one of the included 12V DC power supplies.

RECEIVER PANEL LAYOUT

Front Panel



Back Panel



RECEIVER PANEL DESCRIPTIONS

1 Power Switch

This switch will toggle the main power on and off.

2 Output Selector Button

This button will cycle through the available output choices. The cycle is outlined below:



3 Channel Selection Button

This button will cycle through the available radio channels. There are 4 channels to choose from. This feature is useful when a certain channel is oversaturated and another needs to be used. Changes made on this unit will automatically be reflected on the opposite unit.

4 Reset Button

These button will restore the units to factory defaults.

5 3.5mm Mini-Jack Audio Output

This input will accept a 3.5mm mini-jack audio device for analog audio. Audio from the audio input on the sender will be output through this connector.

6 VGA Video Output

This output will accept a single VGA capable device.

7 Component Video Input

This input will accept a single Component capable source.

8 12V DC Power Input

This input will receive power from one of the included 12V DC power supplies.

SENDER LED LAYOUT



| LED | Color | Behavior | Indication |
|------------------|-------|----------|------------------------------|
| Wi-Fi | Green | On | Wireless function is active. |
| | | Blinking | Data receiving. |
| | Red | Blinking | Data transmitting overflow. |
| CH 1~ CH 4 | Blue | On | Wireless channel firm. |
| | | Blinking | Switch channels. |
| VGA | Blue | On | VGA source is active. |
| | | Blinking | Switching sources. |
| YPbPr | Blue | On | YPbPr source is active. |
| | | Blinking | Switching sources. |
| S-Video | Blue | On | S-Video source is active. |
| | | Blinking | Switching sources. |
| Composite (CVBS) | Blue | On | Composite source is active. |
| | | Blinking | Switching sources. |

RECEIVER LED LAYOUT



| LED | Color | Behavior | Indication |
|------------|-------|----------|------------------------------|
| Wi-Fi | Green | On | Wireless function is active. |
| | | Blinking | Data receiving. |
| | Red | Blinking | Data transmitting overflow. |
| CH 1~ CH 4 | Blue | On | Wireless channel firm. |
| | | Blinking | Switch channels. |
| VGA | Blue | On | VGA source is active. |
| | | Blinking | Switching sources. |
| YPbPr | Blue | On | YPbPr source is active. |
| | | Blinking | Switching sources. |

CONNECTING AND OPERATING THE WIRELESS VGA SR

How to Setup the Wireless VGA SR Sender Unit

1. Connect source devices to the Wireless VGA SR sender unit. The sender unit has the following connection options:
VGA
Component
S-Video
Composite
2. Connect a single analog audio source to the Wireless VGA SR sender unit using a 3.5mm mini-jack audio cable.
3. Connect one or both of the following output device types to the Wireless VGA SR receiver unit:
VGA (VGA cable included)
Component
4. Connect a single analog audio output device to the 3.5mm mini-jack output on the Wireless VGA SR receiver unit.
5. Connect the included 12V DC power supplies to both the Wireless VGA SR sender and receiver units.
6. Toggle the power switch on both the Wireless VGA SR sender and receiver units.
7. Turn on all output and source devices.

How to Operate the Wireless VGA SR

Once all units, sources, and output devices are powered and turned on, the sending and receiving units will begin their boot-up sequence.

During this sequence all channel LEDs (blue) on the sender and receiver units will turn on and remain on. The output will display a blue screen with the text:

“Wi-Fi initial...”

Once the initial boot-up sequence is complete, the currently selected input (on the sender) and output (on the receiver) will be active (blue). The LED for the channel in operation will also be on (blue). The output will display a blue screen with the text:

“Search channel XX” (where XX is the current channel)

During the final stages of the boot-up sequence, the Wi-Fi LED should turn on (green) while the sender and receiver units attempt to establish contact with each other.

Once a link has been established, the Wi-Fi LED will begin to blink rapidly. This will indicate that data is being transmitted from the sender to the receiver unit.

Video should now be output through the Wireless VGA SR receiver unit.

CONNECTING AND OPERATING THE WIRELESS VGA SR

If the Wi-Fi LED remains on (green) and does not blink, the sender and receiver units are not linked and video/audio is not being transmitted. When this occurs, video will not be displayed and the output will remain on a blue screen. This text will be displayed:

“No Wi-Fi connection”

Try moving the sender or receiver unit's location until a link is established and the Wi-Fi LED is blinking green.

The Wi-Fi LED may occasionally blink red. This indicates low signal strength. While the link between the sender and receiver units will most likely remain intact, video/audio drop-outs may occur. Try moving the sender or receiver unit's location until a link is established and the Wi-Fi LED is blinking green.

If the Wi-Fi LED remains red, the signal strength is too low and no video will be output. Try moving the sender or receiver unit's location until a link is established and the Wi-Fi LED is blinking green.

How to Switch Input Sources on the Wireless VGA SR

Use the switch button on the front panel of the Wireless VGA SR sender unit, labeled “S”, to cycle between the available input sources. The currently selected source will be indicated by a blue LED. Each press will progress to the next input in the following order:



How to Switch Outputs on the Wireless VGA SR

Use the switch button on the front panel of the Wireless VGA SR receiver unit, labeled “S”, to cycle between the available outputs. The currently selected source will be indicated by a blue LED. Each press will progress to the next output in the following order:



How to Switch Channels on the Wireless VGA SR

If there is significant interference on a particular channel, or the currently selected channel is unstable, changing the channel may alleviate the issue. To change the channel, press the channel button, labeled “C” on either the sender or receiver unit. Changes on one unit will automatically be reflected on the other unit. If there is currently no link between the sender and receiver, the channel button will not be operational.

SPECIFICATIONS

| | |
|----------------------------|------------------------------|
| Wireless Standard | IEEE 802.11b/g/n |
| Antenna Type | External Dipole antenna 2dBi |
| PCM Encoding | 48KHz 16-bit sampling |
| Power Supply | 2 x 12V @ 1A each |
| Audio Inputs/Outputs | 3.5mm mini-stereo jacks |

Video Inputs:

| | |
|---------------------------|--|
| Composite & S-Video | NTSC / PAL / SECAM |
| Y/Pb/Pr | 480i/p , 576i/p , 720p (50/60Hz) , 1080i/p (50/60Hz) |
| VGA | 640x480, 800X600, 1024X768, 1280X768, 1280X1024 |

Video Outputs:

| | |
|---------------------------------------|--|
| Y/Pb/Pr | 480p (60Hz), 576p (50Hz), 720p (60Hz) |
| VGA | 640x480 , 800X600 , 1024X768 , 1280X768 , 1280X1024 (60Hz) |
| Switchable 802.11b/g/n Channels | 3, 6, 9, 11 |
| Operating Temperature | 0-40 C ambient temperature |
| Operating Humidity | 90% maximum (non-condensing) |
| Dimensions | 7.05 (L) x 4.17 (W) x 0.9 (H) per unit |

WARRANTY

Gefen warrants the equipment it manufactures to be free from defects in material and workmanship.

If equipment fails because of such defects and Gefen is notified within two (2) years from the date of shipment, Gefen will, at its option, repair or replace the equipment, provided that the equipment has not been subjected to mechanical, electrical, or other abuse or modifications. Equipment that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for ninety (90) days from the day of reshipment to the Buyer.

This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed.

1. Proof of sale may be required in order to claim warranty.
2. Customers outside the US are responsible for shipping charges to and from Gefen.
3. Copper cables are limited to a 30 day warranty and cables must be in their original condition.

The information in this manual has been carefully checked and is believed to be accurate. However, Gefen assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will Gefen be liable for direct, indirect, special, incidental, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. The technical information contained herein regarding the features and specifications is subject to change without notice.

For the latest warranty coverage information, please visit Gefen's Warranty web page at <http://www.gefen.com/kvm/aboutus/warranty.jsp>

PRODUCT REGISTRATION

Please register your product online by visiting Gefen's web site at <http://www.gefen.com/kvm/Registry/Registration.jsp>

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